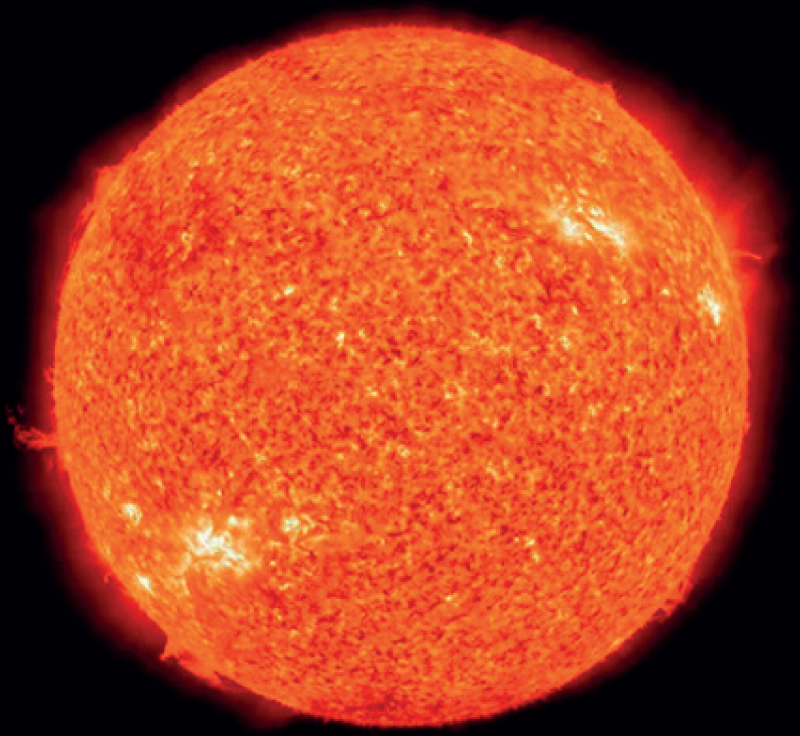

First-year 3FiRES Booklet

• Workshop and network updates about • Research on BIPV Photovoltaic Facades for Fire Spread Mechanisms, Structural Failures and Resilience Improvement Methodologies •

• edited by Chiara Bedon & Yu Wang •

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[…] There are no doubts that the first-year of scientific activities for the running 3FiRES project represented a powerful opportunity of scientific network and growth for the members of research units on both the Italian and Chinese sides, as well as a unique international experience to share methodologies and discuss new strategies for the analysis of BIPV components and facades in fire […]
Chiara Bedon, Yu Wang

[…] Talking about the optimization of novel prototypes, for example, robust standardized methodologies of experimental investigation are of utmost importance. However, the same consideration can be extended to in-service plants, where efficient diagnostic strategies have a primary role for the analysis of photovoltaic components and systems, both under ordinary and accidental operational conditions. […]
Chiara Bedon, Yu Wang

[…] solar energy has become part of the building fabric as a sustainable alternative, and then it has become obligatory and, today, increasingly indispensable. This is a great opportunity for architectural, urban and landscape design, but let us not forget that when we use and transform this technological device in architecture, solar is synonymous with happiness and beauty […]
Adriano Venudo

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"Research on BIPV Photovoltaic Facades for Fire Spread Mechanisms, Structural Failures and Resilience Improvement Methodologies"

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This volume collects some scientific research results from the first year of activities and Workshop contributions (October 7th, 2024, Trieste & online) of the running "Particular Relevance" Italy-China bilateral project 3FiRES - "Research on BIPV Photovoltaic Facades for Fire Spread Mechanisms, Structural Failures and Resilience Improvement Methodologies" (2024-2025). 3FiRES research partners are the University of Trieste, Department of Engineering and Architecture (Principal Investigator Prof. Chiara Bedon) and University of Science and Technology of China, State Key Laboratory of Fire Science (Principal Investigator Prof. Yu Wang). The scientific activities of 3FiRES project are partly financially supported by the Italian Ministry of Foreign Affairs and International Cooperation (grant number CN24GR03) and National Key R&D Program of China (grant number 2023YFE0116700).

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